EASTMAN® BLUE STREAK® II Model 629XS Auto-Stop BRUTE Model 627XS Auto-Stop



Instruction Manual and Parts List

Blue Streak II Model 629XS Auto-Stop

Brute Model 627XS Auto-Stop

Serial # _____

This machine is equipped with a very sharp knife. Keep hands, arms, and hair away from the knife area at all times.

Misuse of this machine or failure to follow all safety instructions on this machine and in the instruction manual may result in serious personal injuries.



779 Washington St., Buffalo, N.Y. 14203-1396 U.S.A. • (716) 856-2200 • Fax (716) 856-1140 or (716) 856-2068 Website: www.EastmanCuts.com Limited Warranty. Eastman warrants to the buyer that the Blue Streak II and Brute shall be free from defects in materials or workmanship for a period of 90 days commencing on the date of invoice. Any goods or parts claimed by the buyer to be defective must be returned to Eastman, freight charges prepaid, within the 90–day warranty period. If Eastman determines that the goods or parts are defective in materials or workmanship, Eastman's sole obligation under this warranty shall be, at Eastman's sole option, to repair or replace the defective goods or parts or to provide to the buyer a credit equal to the portion of the purchase price allocable to the defective goods or parts. This warranty shall not apply if defects are caused by product misuse or neglect, if the machine has been altered or modified by the buyer, or if other than genuine Eastman belts, emery wheels, knives or parts are used in the machine. THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THIS PURCHASE. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Table of Contents

Safety Information	1
General Safety Precautions	. 1
Operation	2
Initial Set Up	. 2
Operating Procedure Safety Considerations Starting the Machine Making a Cut Turning Off the Machine	3 4 . 4
Routine Maintenance	4
Care of the Machine Daily Twice Weekly	. 4
M/o oldy	5

Iwice Weekly	4
Weekly	
•	
Lubrication	5
Daily	5
Weekly	
Monthly	
Sharpening the Knife	5
Removing the Sharpener	
Replacing the Rubber Driver Pulley	6

Adjusting the Belt Sharpener Changing Sharpener Belts Adjusting Stabilizers for Central Alignment Checking the Sharpener Shoes Checking the Extreme Down Position of the Sharpener Checking the Stop Screw on the Sharpener Sho Check the Width of the Bevel on the Knife	
Adjusting Bevel Bloc [®] Shoes	11
Troubleshooting	14
Freeing Frozen Guides	16
Accessories	16
	100
Metal Mesh Gloves Ordering Details	16
	16 172
Ordering Details	16 17 1770
Ordering Details	المعلى 16 16 1770 18 18 19 19 19
Ordering Details	16 17 177 17700000 18 19 19 19 19 19

IMPORTANT

This manual contains instructions and part numbers for two different machines: Brute Model 627XS and Blue Streak II Model 629XS. If you contact Eastman Machine Company for information or to order parts, always specify the machine name and model number.

If you are ordering electrical components, specify the voltage, frequency (Hz), and speed (RPM) of your machine. You can find this information on a label attached to your machine.

Patents Statement

Some parts of this manual and the equipment it describes are protected by the following U.S. patents: 5,178,232, 4,609,244, 5,111,582, 4,761,878, and D281,416. Other patents pending.

Trademarks Statement

The names Eastman, Uni-Safe, Blue Streak, and Bevel Bloc are registered trademarks of the Eastman Machine Company.



List of Figures

Figure 1.	Operating Features 2
Figure 2.	Controls and Adjustments 3
Figure 3.	Removing the Sharpener 6
Figure 4.	Replacing the Rubber Driver Pulley 6
Figure 5.	Changing the Sharpener Belts 7
Figure 6.	Adjusting the Stabilizers7
Figure 7.	Changing the Knife9
Figure 8.	Available Eastman Knife Types 10
Figure 9.	Adjusting Bevel Bloc Shoes 11
Figure 10.	Bevel Bloc Shoe Assembly 12
Figure 11.	Maintenance Supplies 13
Figure 12.	Electrical Configuration 15
Figure 13.	Freeing Frozen Guides 16
Figure 14.	Available Metal Mesh Glove Styles 17
Figure 15.	Eastman Abrasive Belts 17
Figure 16.	Edges Produced by Different Belt Grits 18
Figure 17.	Ergo-Handle 18
Figure 18.	Plastic Master 19
Figure 19.	Micro Fog 19
Figure 20.	Exploded Assembly View 21
Figure 21.	Single-Phase Motor Assembly
	(Assembled View) 22

Figure 22.	Single Phase Motor Assembly (Exploded View)
Figure 23.	Three-Phase Motor Assembly (Assembled View)
Figure 24.	Three-Phase Motor Assembly (Exploded View)
Figure 25.	Front Bearing Housing with Oiler Assembly (Exploded View)
Figure 26.	Sharpener Housing Assembly (Assembled, Front View)
Figure 27.	Sharpener Housing Assembly (Exploded, Front View)
Figure 28.	Sharpener Housing Assembly (Assembled, Rear View)
Figure 29.	Sharpener Housing Assembly (Exploded, Rear View)
Figure 30.	Lower Gear Bracket Assembly (Assembled View) 32
Figure 31.	Lower Gear Bracket Assembly (Exploded View)
Figure 32.	Standard and Baseplate Assembly (Assembled View)
Figure 33.	Standard and Baseplate Assembly (Exploded View)
Figure 34.	Removing a Worn Plate Roller Shell

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Safety Information

General Safety Precautions

Throughout this manual, safety information is presented by use of the terms *Warning, Caution,* and *Note.* These terms have the following meanings:

A warning contains critical information regarding potential safety hazards that can occur during proper use or misuse of the machine. Failure to follow these procedures may result in serious personal injury to the user.

A caution contains instructions for the use or maintenance of the machine. Failure to follow these procedures may result in damage to the machine.

Safety and Indemnification

During the life of the machine, the purchaser agrees to provide to all machine users (including its own employees and independent contractors) all relevant safety information, including warning labels and instruction manuals. The purchaser also agrees to maintain the safety features and working condition of the machine, and to adequately train all users in the safe use and maintenance of the machine. The purchaser agrees to defend, protect, indemnify, and hold Eastman Machine Company harmless from and against all claims, losses, expenses, damages, and liabilities to the extent that they have been caused by the purchaser's failure to comply with the terms and instructions of this manual.

Supplementary information may be given in a Note.

- This machine is equipped with a very sharp and dangerous knife. Keep hands, arms, and hair away from the knife area at all times. When the machine is not in use, keep the pressure foot knife guard lowered and locked at all times. Safety gloves and glasses and appropriate clothing may prevent serious personal injuries.
- Disconnect the power supply from the machine when it is not in use or during routine maintenance, including lubrication.
- The purchaser must ensure that the electrical power supply line complies with all the local electrical code, regulation.
- The purchaser must instruct all operators in the proper use of the machine according to the instructions on the machine and in this manual. This training must include instruction on the potential safety hazards arising from the use or misuse of the machine. In addition to such training, the purchaser should provide written work instructions as necessary to ensure correct use of the machine for specific cutting applications.

- The purchaser must provide appropriate safety measures and equipment as recommended in this manual. Observe all statutory requirements concerning the use of hazardous machinery that apply to your location.
- Do not modify this machine or disable safety features. Unauthorized modification may result in serious personal injuries to the user. Electrical connections to this machine must be made by a qualified electrician familiar with applicable codes and regulations. To prevent electrocution, a ground lead must be connected to terminal "E" on the attachment plug.
- This machine is intended ONLY for hand-held operation. Misuse of this machine or use of this machine as part of another machine may result in serious personal injuries to the user.
- Safety labels must be kept clean and legible at all times. Call the Eastman Machine factory to order replacement labels.

Operation

Before operating the machine, read these instructions carefully. Familiarize yourself with all the functions and adjustments of the machine.

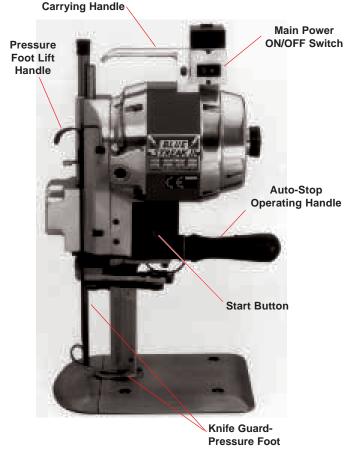


Figure 1. Operating Features

Initial Set Up

After the machine has been installed and before you use it for the first time:

1. Check that the electrical supply current and voltage that the machine is connected to are the same as stamped on its name plate. For three-phase machines, also check that the direction of rotation is correctly set by the turning knob (Figure 2, F). Refer to the tag attached to all three-phase machines for detailed instructions.

Operating this machine from an incorrect electrical supply may damage it.

2. Check that the machine has been lubricated according to the schedule listed in *Routine Maintenance–Lubrica-tion* on page 5.

Note: At this time, carry out the full monthly lubrication schedule on page 5.

- 3. Make sure that the sharpener is in the locked position. To do this, push in the turning knob (Figure 2, F). While depressing the turning knob, turn the machine over a few revolutions by hand to see if the knife reciprocates easily. If the knife does not move easily, the sharpener may be in the unlocked position.
- To lock the sharpener in place, lift the release lever (Figure 2, D) and press the sharpener lever (Figure 2, E) to release the sharpener. Raise the sharpener bracket (Figure 2, S) by hand to lock it in place. Once the sharpener is locked in place, you may disengage the release lever and sharpener lever. Repeat step 3 to ensure that the sharpener is now locked. If not, repeat this step.
- Visually inspect the blade to ensure that the top of the knife is flush with the knife lockbolt (Figure 7, 1 on page 9) and that the knife is perpendicular to the baseplate. If you need to adjust the alignment of the blade, see section *Changing the Knife* on page 9.
- 6. Check that the main power switch is in the OFF position. Then connect the attachment plug to the terminal block on the machine.
- 7. Hold the operating handle and switch on the machine. Press the start button and allow the blade to reach full speed. If the blade is struggling, the sharpener is still not in the locked position. If this is the case, turn off the machine and do the following:

7.1 With your left hand, switch the on the machine. Straddle the front of the sharpener with fingers and thumb.

7.2 Press the bell crank release lever (Figure 2, H) to disengage the sharpener mechanism from the motor.

7.3 With your right hand, hold the operating handle and press the start button. Allow the motor to gather full speed and then release the release lever. This automatically returns the sharpener to the locked position.

Turn the motor on and off a few times before running the machine continuously. This permits the oil to warm up and flow easily into the close-fitting moving parts. Failure to do this may result in damage to your machine.

The machine is now ready for use.

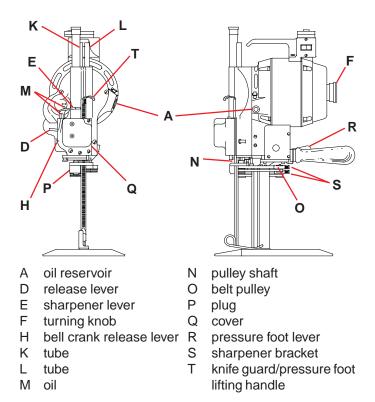


Figure 2. Controls and Adjustments

Operating Procedure

Safety Considerations

To prevent serious injury, read and follow these safety precautions.

Before starting or using your machine:

- 1. Check that you know and understand the following:
 - That proper voltage is supplied to machine.
 - How to turn off the machine in an emergency.
 - The meaning of all warning labels on the machine.
 - What happens to the machine when you operate the controls.
 - Proper start-up procedures described in Initial Set Up section.
 - What to do in the event of a jam or other unforeseen situation.
 - How to disconnect power from the machine.

If you are not familiar with any of these points, ask your supervisor or contact an Eastman representative.

- Check the condition of your machine and working area. Make sure that:
 - There is no visible damage to the machine. Pay particular attention to the blade.
 - No maintenance work is currently being performed in your working area.
 - No unnecessary people are in your working area.
 - Your working area is clear of debris, spilled liquids, food, drink, or other obstructions.
 - Your clothing, hair, and jewelry cannot snag or become tangled in the machine. Wear appropriate protective equipment as necessary. Remove all rings, watches, neckties, and other loose objects. Tie up hair or wear a hair net.

If you are uncertain about any of these points, do NOT use the machine.

Failure to use all recommended safety measures and equipment may result in serious personal injury.



Starting the Machine

If you have had the machine less than one month or if it has stood idle for any length of time, turn the motor on and off a few times before running it continuously. This permits the oil to warm up and flow easily into the close-fitting moving parts.

Failure to warm up your machine adequately may damage the motor.

Making a Cut

Failure to keep hands, arms, and hair away from the knife area at all times may result in serious personal injury.

- 1. Bring the machine up to the material spread.
- 2. Switch on the main power to activate the automatic pressure foot lock.
- 3. Raise the knife guard/pressure foot by depressing the pressure foot lever (Figure 2, R) and lifting the knife guard/pressure foot lifting handle (Figure 2, T). Raise the pressure foot only enough to clear the material being cut.
- 4. Press the start button. Allow the blade to reach full speed, and enter the fabric.
- 5. Using the pressure foot lever (Figure 2, R) and the knife guard/pressure foot lifting handle (Figure 2, T), lower the pressure foot so that it is slightly above the material being cut. This will prevent the material from reciprocating.
- 6. Begin cutting.
- 7. When you are not making a cut, or when the machine is not in use, keep the knife guard/pressure foot lowered to the baseplate by depressing the pressure foot lever (Figure 2, R).
- 8. Turn off the machine when not cutting fabric.

Turning Off the Machine

When you have finished using your machine:

- 1. Position the power switch to off.
- 2. Make sure the knife guard/pressure foot is lowered to the baseplate by depressing the pressure foot lever (Figure 2, R).
- 3. Disconnect the attachment plug from the power source.
- 4. In cold weather, ensure that the machine is kept in a warm place when not in use.

Routine Maintenance

A WARNING

Always unplug the machine before performing maintenance, adjustments, or repairs.

A WARNING

After servicing the machine, always make sure the plate bolt nut is securely fastened (Figure 3, X on page 6) before resuming cutting operation.

Care of the Machine

To ensure proper operation of your machine, carry out the following procedures at the intervals indicated. If you use your machine intensively, consider performing these procedures more often.

Daily

Remove the knife and clean the knife slides with the slot cleaner (Figure 7, 2 on page 9) included with machine. To prevent undue accumulation of lint, do NOT oil the plate rollers. If the rollers stick, remove them from the plate and wash them in cleaning solvent.

Twice Weekly

Use an approved air hose or bellows to blow any lint from around the motor and sharpener.

Failure to wear eye protection when using air hose or bellows may result in serious eye or facial injuries.

Weekly

Remove the cover (Figure 2, Q) and clean any lint from around the screw mechanism in the sharpener.

Lubrication

Lubricate your machine according to the following schedule:

Use only specially compounded Eastman 30-weight, non-detergent oil. Use of sewing machine oil or detergent oil may result in damage to your machine. Do not oil the baseplate rollers. Use of an excessive amount of oil may damage the machine.

Daily

- 1. Place two drops of oil at each of the two locations shown in Figure 2, M. Use an oil can with a small spout. (A suitable oil can is furnished with the machine.)
- 2. Fill the oil reservoir (Figure 2, A) for continuous use. If you only use the machine intermittently, you can use less oil.

Weekly

- 1. Carry out the *Daily* lubrication schedule above.
- 2. Apply one drop of oil only to each of the following:
 - Tubes at locations shown as Figure 2, K and L.
 - Pulley shaft shown as Figure 2, N.
 - Belt pulley shown as Figure 2, O.

Monthly

1. Carry out the *Daily* and *Weekly* lubrication schedules above.

2. Remove the plug (Figure 2, P) and insert a grease tube. Squeeze an amount of grease approximately the size of a pea into the opening.

Routinely check the tightness of the operating handle to ensure a secure connection.

Sharpening the Knife

Sharpen the knife at frequent intervals or whenever you feel it is not cutting adequately:

- 1. Take the machine out of the lay.
- Drop the knife guard/pressure foot using the pressure foot lever (Figure 2, R on page 3), located next to the machine operating handle.
- Press the sharpener lever (Figure 2, E) downward with a slow, firm pressure to engage the sharpening mechanism. Too fast a lever action may cause the lever to lock. If this occurs, lift the release lever (Figure 2, D) and start over again.

Removing the Sharpener

- 1. Disconnect the machine from the power source.
- Using the turning knob (Figure 2, F) raise the blade to top position.
- 3. Press the sharpener lever (Figure 3, E on page 6) approximately halfway down and to the neutral position, and lower the sharpener by hand.

This machine is equipped with a very sharp knife. Remove the knife when working in this area. Failure to keep hands, arms, and hair away from the knife area may result in serious personal injury.

4. Remove the back guide (Figure 3).



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- 5. Press the lever (Figure 3, E) to a neutral position and raise the sharpener to the top (original) position.
- 6. Remove the four hold-down nuts (Figure 3, V), unplug solenoid cord and remove the sharpener.

Note: If you press the sharpener lever (Figure 3, E) down too far (beyond the neutral position), it will lock the sharpener bracket. If this occurs, lift the release lever (Figure 3, D) and start over again.

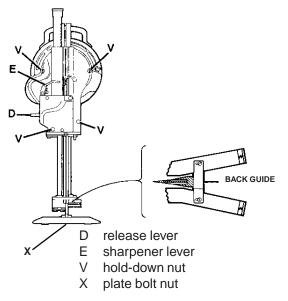
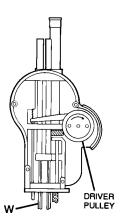


Figure 3. Removing the Sharpener

Replacing the Rubber Driver Pulley

The sharpener is driven by a rubber driver pulley, as shown in Figure 4. Replace this driver pulley whenever it appears to be worn or damaged, as follows:

- 1. Remove the sharpener from the machine (see *Removing the Sharpener* on page 5).
- 2. Press the sharpener lever (Figure 3, E) to a neutral position and lower the sharpener until an inch of the square shaft (Figure 4, W) is exposed.



W square shaft

Figure 4. Replacing the Rubber Driver Pulley

- 3. Hold the square shaft with a wrench. Position the wrench as close as possible on the shaft to the sharp-ener housing.
- 4. Use a spanner wrench to remove the driver pulley by turning it clockwise as indicated by the arrow in Figure 4.

Note: The pulley has a left-hand thread.

- 5. Reassemble the new pulley on the sharpener.
- 6. Reassemble the sharpener on the machine.

Adjusting the Belt Sharpener

Note: You can obtain all the special tools you will require for adjusting the sharpener by ordering tool kit #820C2.

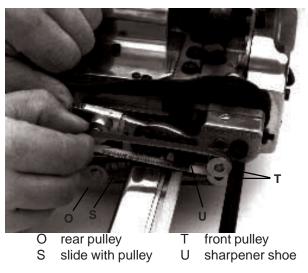


Figure 5. Changing the Sharpener Belts

Failure to unplug the attachment plug from the power source before performing maintenance may result in serious personal injury.

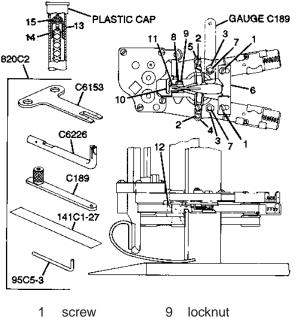
Changing Sharpener Belts

- 1. Push the slide with pulley (Figure 5, S) inward to relieve tension, then remove the worn belt.
- 2. Place the new belt over the front pulley (Figure 5, T), then between the sharpener shoe (Figure 5, U), and then over the rear pulley (Figure 5, O).
- 3. Release the slide with pulley.

Note: Sharpener belts are available in four grits: Rough, Coarse, Medium, and Fine. See *Abrasive Belt Grits* on pages 17-18 for ordering information.

Adjusting Stabilizers for Central Alignment

- 1. Disengage the attachment plug, if you have not already done this.
- 2. Depress the sharpener lever (Figure 2, E on page 3) halfway and lower the belt carrier to the extreme bottom position.
- 3. Loosen the screws (Figure 6, 1) and disengage the back guide (Figure 6, 6) from contact with the standard.
- 4. Loosen the screws (Figure 6, 2) and disengage the stabilizers (Figure 6, 4 and 5).



1	screw	9	locknut
2	screw	10	clamping arm
3	locknut	11	sharpener shoe
4	stabilizer	12	shoe
5	stabilizer	13	tube
6	back guide	14	spacer
7	pivot screw	15	locknut
8	stop screw		

Figure 6. Adjusting the Stabilizers



- 5. Remove the locknut (Figure 6, 3).
- 6. Install gauge C189 on the exposed threaded end of the pivot screw (Figure 6, 7) and press the end of the gauge against the side of the standard.
- 7. Holding this position, engage the opposite stabilizer (Figure 6, 4) firmly against the side of the standard and tighten the screws (Figure 6, 2).
- 8. Remove tool C189 and press the positioned stabilizer (Figure 6, 4) against the side of the standard. Then fasten the opposite stabilizer (Figure 6, 5) firmly against the standard.
- 9. Re-engage the back guide (Figure 6, 6) in loose contact with the back of the standard.

Checking the Sharpener Shoes

The shoes should swing in and out freely without excessive up and down play. If adjustment is necessary, proceed as follows:

- 1. Loosen the locknuts (Figure 6, 3) and tighten the screws (Figure 6, 7) as required.
- 2. Check the clamping arm (Figure 6, 10) with the belt carrier in the most downward position and the knife in the most upward position. The clamping arm should keep the sharpener shoe from moving in. If it fails to do so, the serrations on the clamping arm are worn or the sharpener shoe (Figure 6, 11) is worn.
- 3. Replace worn part(s) as necessary.

Checking the Extreme Down Position of the Sharpener

The correct down position is with the tip of the knife at the center of the belt on the shoe (Figure 6, 12). The belt should be in the most downward position, and the knife should be in the most upward position. If the belts are too high, the bottom point of the knife will not sharpen. If the belts are too low, the bottom point of the knife will round off excessively. If adjustment is necessary:

- 1. Raise the belt carrier to the up position.
- 2. Remove the plastic cap from the tube for the screw shaft.
- 3. Insert a pin through the hole in the tube (Figure 6, 13) to prevent the spacer (Figure 6, 14) from turning. Then remove the locknut (Figure 6, 15).

The following step describes the correct procedure for setting spacer adjustment on different stroke machines:

Note: Prior to beginning adjustment, be sure that the spacer is threaded fully onto screw shaft.

Stroke	Turns	
1-1/8"	11	
1-1/4"	9	
1-1/2"	13	
1-3/4"	8	
Note: Each turn = 1/32"		

4. Turn the spacer clockwise with wrench C6153 to raise the bottom position, or turn counter-clockwise to lower the position.

Note: One turn in either direction adjusts the position by 1/32".

- 5. When the spacer is adjusted, use the pin to hold the spacer in position, reassemble, and tighten the locknut (Figure 6, 15).
- 6. Replace the plastic cap.

Checking the Stop Screw on the Sharpener Shoe

- With new belts on the carrier, insert .010 feeler gauge #141C1-27 between the stop screw (Figure 6, 8) and the knife. Ensure that the clamping arm (Figure 6, 10) has been released from the sharpener shoe (Figure 6, 11). The gauge should just fill the space between the screw and the knife.
- If an adjustment is necessary, loosen the locknut (Figure 6, 9). Adjust the set screw to the proper spacing, and re-tighten the locknut.

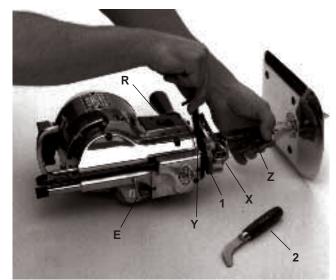
Check the Width of the Bevel on the Knife

The bevel should be approximately 1/16" on both sides. If it is not:

- 1. Install a new knife and new belts.
- 2. Color the bevel with a wax pencil.
- 3. Run the sharpener up and down the knife several times.
- 4. If an adjustment is required for Flex-Pad shoes, insert tool C6226 over the belt guide pad. Move the free end of the tool to the rear to increase the bevel, or to the front to decrease bevel.

Changing the Knife

Always handle knives with care. Safely dispose of used knives.



- 1 knife lockbolt
- R pressure foot lever
- 2 slot cleaner
- E lever
- X pressure footY T-handle knife bolt wrench
- Z standard

Figure 7. Changing the Knife



Changing the Knife (continued)

Unplug the attachment plug from power source.

- 1. Make sure the sharpener is in the locked position.
- 2. Lay the machine on a table, as shown in Figure 7.
- 3. Raise the pressure foot (Figure 7, X on page 9) to the top position.
- 4. Press in the turning knob (Figure 2, F on page 3) and turn the knife to the bottom position.
- 5. Insert the T-handle knife bolt wrench (Figure 7, Y) and loosen the knife lockbolt (Figure 7, 1).
- 6. Remove the knife through the bottom of the standard (Figure 7, Z).
- 7. After removing the knife, clean the knife slot in the standard with the slot cleaner (Figure 7, 2).
- 8. Insert a new knife in the knife slot. Be sure to set the knife tightly against the knife lockbolt. Hold the bottom of the knife against the back of the slot in the standard and tighten the knife lockbolt.

- 9. After tightening the knife lockbolt, check to see if the knife runs freely in the standard by rotating the turning knob.
- 10. Install new sharpener belts and operate the sharpener three or four times before starting to cut.

Note: For best results, use only Eastman knives. The limited warranty covering your machine is not valid if you use knives other than those manufactured by Eastman. The available knives and accessories are shown in Figure 8 and in the selection charts on the next page.

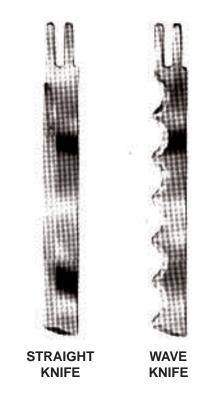


Figure 8. Available Eastman Knife Types

WAVE KNIVES REQUIRE SPECIAL SHOES AND RELATED PARTS LISTED BELOW

743C1-27	L.H. Shoe	743C1-26	R.H. Shoe
34C10-47	L.H. Spring	34C10-57	R.H. Spring
20C12-57	Screw	20C12-57	Screw
	(for shoe)		(for shoe)

WHEN USING THESE SPECIAL SHOES, THE FOLLOW-ING PARTS MUST BE REMOVED FROM THE LOWER GEAR BRACKET

35C7-28	Clamping Arm	See page 33
34C10-123	Spring	
20C12-143	Screw	

See page 31 for slow speed drive note.

STRAIGHT KNIFE SELECTION CHART

			-						
	CARBO	N STEEL	-			HIGH-SPEED	STEEL		SPECIAL PROCESS
KNIFE SIZE	STRAIGHT FRONT	SAW TOOTH	WAVE EDGE	STRAIGHT FRONT	ROUND TIP	ANGLE TIP	SAW TOOTH	WAVE EDGE	STRAIGHT FRONT
4 5 7 8 9 10 11-1/2 13	80C4 80C5 80C6 80C7 80C8 80C9 80C10 80C11-1/2 80C13	80C4-14 80C5-14 80C6-14 80C7-14 80C8-14	80C4-19 80C5-19 80C6-19 80C7-19 80C8-19 80C9-19 80C10-19	80C4HS 80C5HS 80C6HS 80C7HS 80C8HS 80C9HS 80C10HS 80C11-1/2HS 80C13HS	80C5HS-R 80C6HS-R 80C7HS-R 80C8HS-R 80C9HS-R 80C10HS-R 80C11-1/2HS-R 80C13HS-R	80C5-36HS 80C6-36HS 80C7-36HS 80C8-36HS 80C9-36HS 80C10-36HS 80C11-1/2-36HS	80C4-14HS 80C5-14HS 80C6-14HS	80C4-19HS 80C5-19HS 80C6-19HS 80C7-19HS 80C8-19HS 80C9-19HS 80C10-19HS 80C11-1/2-19HS	80C5SP 80C6SP 80C7SP 80C8SP 80C9SP 80C10SP 80C11-1/2SP 80C13SP

80C6-47HS 6" High-Speed Wave Special Grooved Knives for Micro Fog Machine 80C7-47HS 7" High-Speed Wave Special Grooved Knives for Micro Fog Machine

Teflon-coated knives available. Order by adding "T" to end of knife order.

Adjusting Bevel Bloc[®] Shoes

Eastman's exclusive, patented adjustable Bevel Bloc sharpener shoes make it possible to grind any desired bevel on the knife edge. The knife-edge bevel on your new machine is factory set to handle all normal fabrics and normally should not be changed. The preset measurement is 1/16" wide.

(Continued on next page.)



Figure 9. Adjusting Bevel Bloc Shoes



Adjusting Bevel Bloc® Shoes (continued)

If you need to adjust the bevel on the knife edge to a different length, proceed as follows:

- 1. Disconnect the machine from the power source.
- 2. Lower the knife to the bottom of the stroke with the machine turning knob (Figure 2, F on page 3).
- 3. Lower the sharpener manually, by holding the sharpener lever (Figure 2, E) halfway down to its neutral position.
- 4. Pull the sharpener belt down to expose the set screw (Figure 9 on page 11) on the Bevel Bloc.
- 5. Insert Allen wrench 95C5-5 into the set screw and loosen it slightly.
- 6. For a longer bevel on the knife edge, move the key and bloc to the rear. For a shorter bevel, move them to the front.
- 7. Re-tighten the set screw.
- 8. Adjust the Bevel Blocs on both shoes.
- 9. Return the sharpener to the top (locked) position.
- 10. Check the stop screws on the sharpener shoes for correct setting, as described in *Checking the Stop Screw on the Sharpener Shoe* on page 9.
- 11. Color-mark the front sides of the knife edge with marking ink or a wax pencil. Reconnect and turn on power. Then move the sharpener down and up several times.
- 12. Check the bevel on both sides of the knife. Readjust if necessary.

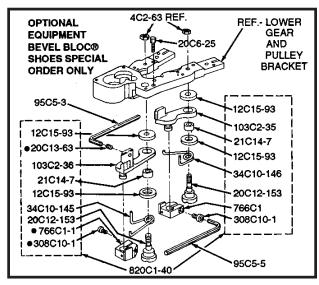


Figure 10. Bevel Bloc Shoe Assembly

SUBASSEMBLY 743C3-1 INCLUDES:

20C13-63	Screw, Set
103C2-36	Shoe, Sharpener L.H.
766C1-1	Bevel Bloc Assembly L.H.
308C10-1	Screw, Socket 6/32" x 5/16" (2 required)

PART NO. DESCRIPTION

4C2-63 L.H. Nut (2 required)
715C1-16 Lower Gear Bracket Complete 5"-10" Knife
715C1-18 Lwr. Gear Bracket Com. 11 1/2"-13" Knife
820C1-40 Conversion Kit R.H. & L.H. Shoes

INCLUDES THE FOLLOWING:

12C15-93Washer Shoe (4 required)20C6-25*Screw Adjust20C12-153Screw, Sharpener Shoe (2 required)20C13-63Screw, Set21C14-7Bushing, Shoe (2 required)34C10-145Spring Shoe L.H.34C10-146Spring Shoe R.H.95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-36Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.820C1-39Conversion Kit includes * parts above		
20C12-153Screw, Sharpener Shoe (2 required)20C13-63Screw, Set21C14-7Bushing, Shoe (2 required)34C10-145Spring Shoe L.H.34C10-146Spring Shoe R.H.95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	12C15-93	Washer Shoe (4 required)
20C13-63Screw, Set21C14-7Bushing, Shoe (2 required)34C10-145Spring Shoe L.H.34C10-146Spring Shoe R.H.95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	20C6-25*	Screw Adjust
21C14-7Bushing, Shoe (2 required)34C10-145Spring Shoe L.H.34C10-146Spring Shoe R.H.95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	20C12-153	Screw, Sharpener Shoe (2 required)
34C10-145 Spring Shoe L.H. 34C10-146 Spring Shoe R.H. 95C5-3 Wrench, Allen 95C5-5* Wrench, Allen 103C2-35 Shoe, Sharpener R.H. 103C2-36 Shoe, Sharpener L.H. 308C10-1* Screw, Socket 6/32" x 5/16" (2 required) 766C1* Bevel Block Assembly R.H. 766C1-1* Bevel Block Assembly L.H.	20C13-63	Screw, Set
34C10-146Spring Shoe R.H.95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	21C14-7	Bushing, Shoe (2 required)
95C5-3Wrench, Allen95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	34C10-145	Spring Shoe L.H.
95C5-5*Wrench, Allen103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	34C10-146	Spring Shoe R.H.
103C2-35Shoe, Sharpener R.H.103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	95C5-3	Wrench, Allen
103C2-36Shoe, Sharpener L.H.308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	95C5-5*	Wrench, Allen
308C10-1*Screw, Socket 6/32" x 5/16" (2 required)766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	103C2-35	Shoe, Sharpener R.H.
766C1*Bevel Block Assembly R.H.766C1-1*Bevel Block Assembly L.H.	103C2-36	Shoe, Sharpener L.H.
766C1-1* Bevel Block Assembly L.H.	308C10-1*	Screw, Socket 6/32" x 5/16" (2 required)
J	766C1*	Bevel Block Assembly R.H.
820C1-39 Conversion Kit includes * parts above	766C1-1*	Bevel Block Assembly L.H.
	820C1-39	Conversion Kit includes * parts above.

Note: 766C1 and 766C1-1 are sold in pairs with kits only.

SUBASSEMBLY 743C3 INCLUDES:

- 103C2-35 Shoe, Sharpener R.H.
- 766C1 Bevel Block Assembly R.H.
- 308C10-1 Screw, Socket 6/32" x 5/16" (2 required)

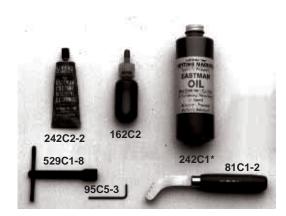


Figure 11. Maintenance Supplies

MAINTENANCE SUPPLIES

PART NO.	DESCRIPTION
529C1-8	Knife Bolt Wrench
95C5-3 242C2-2	Allen Wrench for Shoe Set Screws Eastman Bearing Grease
162C2	Oil Can
242C1*	1/2 Pint Eastman Oil
81C1-2	Slot Cleaner

*Optional

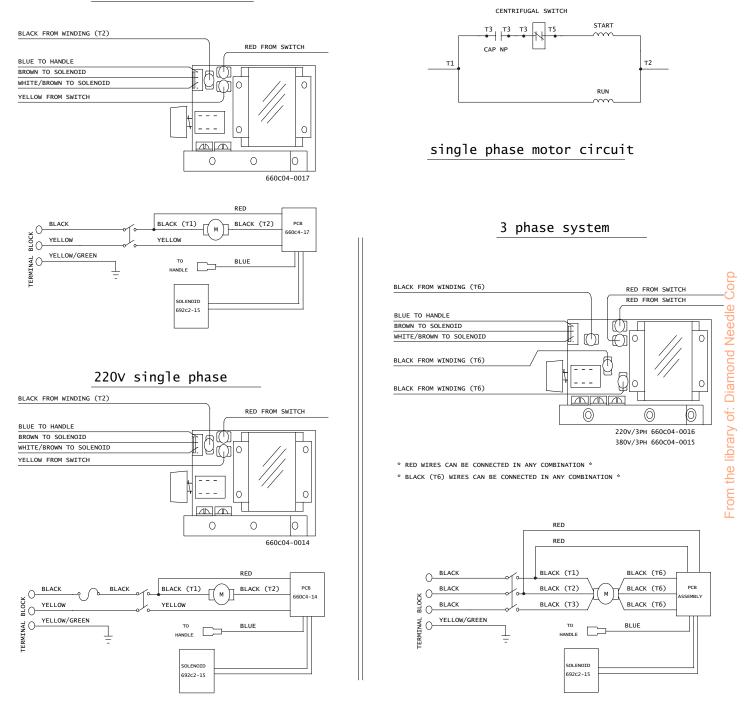


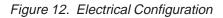
Troubleshooting

PROBLEM	SOLUTION
Motor overheats	 a. Cut out switch not engaging properly b. Lint and dust inside motor cover c. Three-phase: one phase not working d. Standard not in alignment with crosshead
Machine does not start	 a. Connector not firmly attached to terminal pins b. Start switch defective c. Starting switch or cut-out switch and/or capacitor defective d. Fuse Blown
Bottom corner of blade breaks	a. Knife slides badly wornb. Knife strikes throat plate
Motor slow to attain top speed	 a. Sharpener is engaged b. Cut out switch not adjusted properly c. Low or wrong voltage d. For three-phase machines: Fuse out on one phase Ground wire incorrectly connected to machine
Motor slows in a certain position	 a. Crosshead and guides tight b. Standard not in alignment with crosshead c. Standard bent
Motor rotates in wrong direction	a. Three-phase: incorrect wiring
Terminal block and/or electrical connector overheats	a. Inserts in connector worn Change connectorb. Terminal pins worn

PROBLEM	SOLUTION
Machine does not move easily on table	a. Surface of cutting table not smoothb. Rubber mounted rollers compressed causing baseplate to drag on table
No bevel on one side of blade	a. Broken torsion springb. Band plates do not pivot freely
Sharpener belt cut off by blade	a. Refer to page 8, <i>Checking the Extreme Down Position of the Sharpener</i>
Pressure foot rod does not move freely	a. Dirt in pressure foot lock bracket
Pressure foot rod does not hold	 a. Lock loose on shaft b. Pressure foot handle spring broken c. Teeth worn on lock d. Screw loose e. Lock solenoid not connected
Sharpener runs slowly	 a. Oil on crank b. Stabilizer assembly too tight against standard c. Worn pulley d. Worn screw shaft e. Add grease to lower gear bracket
Bevel very wide on both sides of blade	a. Worn sharpener shoes

110V single phase







Freeing Frozen Guides

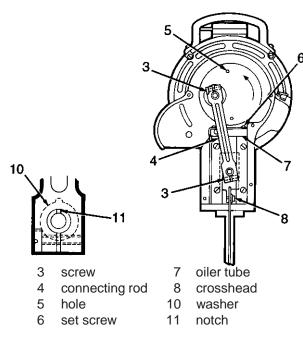


Figure 13. Freeing Frozen Guides

To free frozen guides, proceed as follows:

- 1. Remove the machine from the power source.
- 2. Remove the sharpener from the machine, see *Removing the Sharpener* on page 5.
- 3. Loosen the screws (Figure 13, 3) and remove the connecting rod (Figure 13, 4).
- 4. Insert the drift pin in the hole (Figure 13, 5) in the crank and tap with a light hammer in the direction of the arrow. This will loosen the crank.
- 5. Remove the crank.
- 6. Loosen the set screw (Figure 13, 6) using a No. 564 Allen key (.078 hex) and remove the oiler tube (Figure 13, 7).
- 7. Remove the crosshead (Figure 13, 8) from the guides.

8. Place a fiber or brass rod against the bottom of the crosshead and drive the crosshead out through the top of the guides.

Note: If the wrist pin is frozen in the crosshead, drive the wrist pin out of the crosshead with a soft punch. Polish the wrist pin and the hole in the crosshead with fine emery cloth.

- 9. Hone any rough spots on the bearing surface of the crosshead against a flat oilstone until smooth.
- 10. Examine the guides. If there is any evidence of a high spot, remove it with a scraper and then clean.
- 11. Oil the bearing surface of the guides, insert the crosshead, and reassemble the machine. Ensure the washer (Figure 13, 10) is in place between the connecting rod and crosshead.

▲ Caution

The wrist pin must be installed with the notch (Figure 13, 11) at top center. If the wrist pin is not installed correctly, the flow of oil to the wrist pin bearing will be cut off.

12. Return power to machine and run the machine for approximately one-half hour, oiling the guides frequently, before putting the machine back into production.

Accessories

Metal Mesh Gloves

Metal mesh gloves provide an extra margin of safety when handling knives. Eastman has a range of comfortable, lightweight, and good-fitting gloves that offer complete freedom of movement. Mesh allows air circulation, so the hand doesn't sweat.

The all-metal, soldered construction provides maximum strength. They are available either with buckle strap or quick-release strap with Velcro closure.

Metal mesh gloves provide protection from minor cuts, but will NOT prevent accidental injury. Even if you wear safety gloves, failure to keep hands, arms, and hair away from the knife area and follow the safety precautions on the machine and in this manual may result in serious personal injuries.

Do not use metal mesh gloves with a round knife blade cutting machine. The circular motion of the knife could pull the glove toward the blade.



STYLE 515, 5 FINGER



STYLE 513, 3 FINGER Figure 14. Available Metal Mesh Glove Styles

Ordering Details

All gloves are available with three or five fingers. Threefingered gloves have an additional palm strap.

Note: Right-handed operators should order "Left-Hand" gloves. Left-handed operators should order "Right-Hand" gloves.

Ordering Reference	Description
Left-Hand	(For Right-Handed Operators)
AW 513 SL	3 Finger, small, Velcro
AW 513 SLS	3 Finger, small, Snap
AW 513 ML	3 Finger, medium, Velcro
AW 513 MLS	3 Finger, medium, Snap
AW 513 LL	3 Finger, large, Velcro
AW 513 XLL	3 Finger, extra large, Velcro
AW 515 SL	5 Finger, small, Velcro
AW 515 SLS	5 Finger, small, Snap
AW 515 ML	5 Finger, medium, Velcro
AW 515 ML	5 Finger, medium, Snap
AW 515 LL	5 Finger, large, Velcro
AW 515 LLS	5 Finger, large, Snap
AW 515 XLL	5 Finger, extra large, Velcro
Right Hand	(For Left-Handed Operators)
AW 513 MR	3 Finger, medium, Velcro
AW 513 RH	3 Finger, large, Velcro
AW 515 SR	5 Finger, small, Velcro
AW 515 MR	5 Finger, medium, Velcro
AW 515 LR	5 Finger, large, Velcro

Genuine Eastman Abrasive Belts

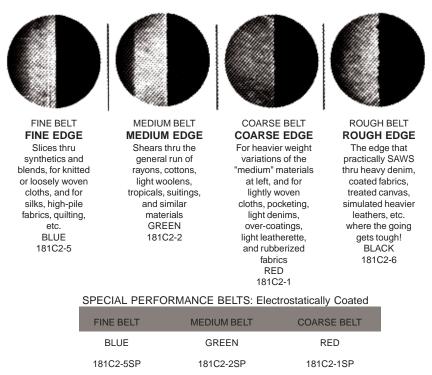
Eastman's four abrasive belt grits offer an edge for every fabric. For increased cutting efficiency, Eastman offers four different edges as produced by four different abrasive belts. These belt grits are available in convenient, color-coded boxes for easy identification.



Figure 15. Eastman Abrasive Belts

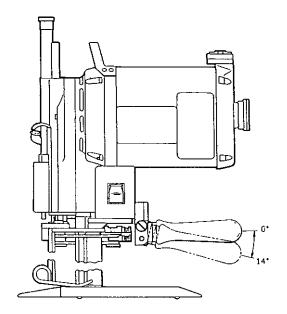


The 250X microphotographs (Figure 16) show four different edges, as produced by Eastman's four abrasive belt grits.



From the library of: Diamond Needle Corp

Ergo-Handle



Available as an option on new machines or for retrofitting to any existing Eastman straight knife, the Ergo-Handle allows the operator to adjust the handle downward from the standard horizontal through a 14-degree range. Adjusting the handle's angle to suit the operator's preference allows for more effective use of the arm muscles, while placing less strain on the wrist and thumb.

PART	NO.	DESCRIPTION

531C1-87	Regular Ergo-Handle
531C1-88	Cushion Ergo-Handle

Figure 17. Ergo-Handle

Figure 16. Edges Produced by Different Belt Grits

Specialty Machines

Plastic Master Model 627XSPM/629XSPM

Eastman's Plastic Master has been specifically designed by Eastman's engineering group to eliminate the fusing of synthetic materials such as plastics, PVC, vinyl, and reinforced vinyl. Exclusively formulated Plastic Master Fluid is applied to a special wave blade by articulated arms. Gravity carries the Plastic Master Fluid down the blade and cools as it cuts. The Plastic Master option is available for slow speed machines.

For more information on the Eastman Plastic Master 627XSPM/629XSPM, call your Eastman authorized dealer or Eastman factory direct.

Micro Fog Model 627XSMF/629XSMF

Eastman's Micro Fog is designed for the same purpose as the Plastic Master, but is more comprehensive. The exclusive Micro Fog and a 90-120 psi compressed air hose sends a mist of coolant/lubricant behind the knife and out through special slotted wave blades to penetrate every layer of cloth and eliminate the conditions that cause fusing. Micro Fogs are only available with slow speed motors, 6" standards, and in 1-1/8 or 1-1/4 stroke only. Special waterproof belts are available for use on this machine. The amount of spray may be regulated through a valve on the device.

For more information on the Eastman Micro Fog 627XSMF/ 629XSMF, call your Eastman authorized dealer or Eastman factory direct.

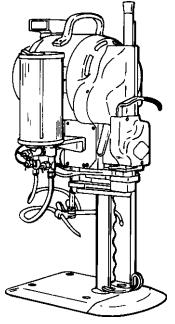


Figure 18. Plastic Master

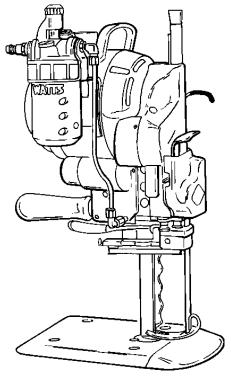


Figure 19. Micro Fog



Illustrated Parts List

Your Eastman Straight Knife has been carefully designed to provide many hours of trouble-free operation. The comprehensive exploded parts illustrations have been carefully prepared to enable you to easily order replacement parts. Replacement parts for this machine may be ordered through your nearest Eastman Machine Company representative or directly from the Eastman factory.

Note: Please specify the model and serial number of your machine when ordering parts. Always specify class number and serial number when ordering parts for faster, more efficient service.

Exploded Parts Illustrations

The exploded parts illustrations and parts lists in this section have been divided into major assemblies as follows:

Motor Assemblies

Single-Phase, Single-Speed	Pages 22, 23
Three-Phase, Single-Speed	Pages 24, 25
Front Bearing Housing Assembly	
See pages 26 and 27.	

Sharpener Housing Assembly

Front view, see pages 28 and 29. Rear view, see pages 30 and 31.

Lower Gear Bracket Assembly

See pages 32 and 33.

Note: Four different abrasive belt grits (designed to provide you with a selection of edges) may be ordered for this machine. See pages 17 and 18 of this manual for more information.

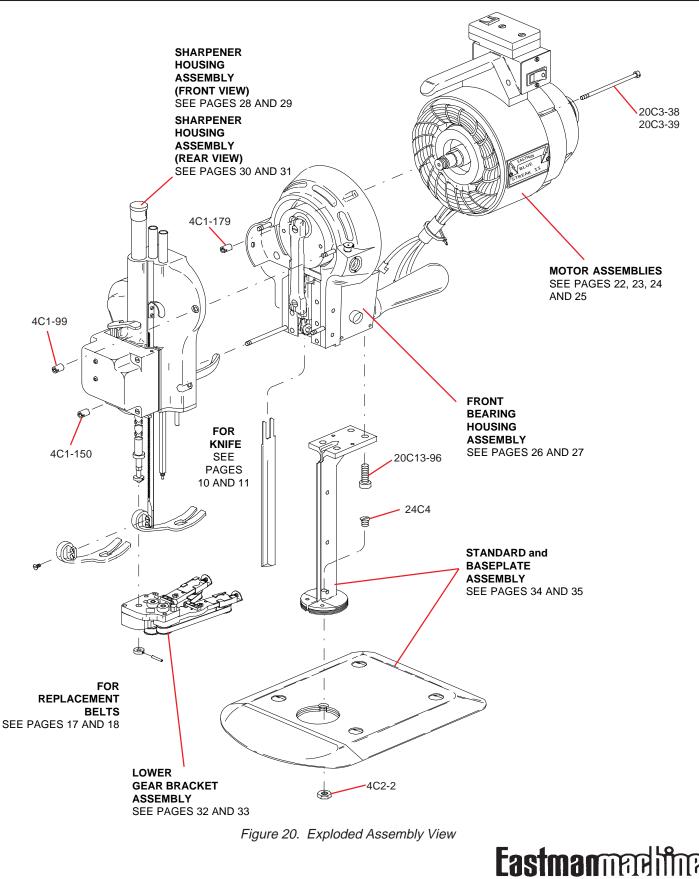
Standard and Baseplate Assembly

See pages 34 and 35.

Note: Knife slides and standard heights indicated on pages 34 and 35 are based on the length of the knife and do not refer to physical dimensions. Thus, a 6" knife slide accommodates a 6" knife. Ordering information and part numbers for knives may be found on pages 10 and 11.

FASTENERS REQUIRED TO ASSEMBLE MAJOR COMPONENTS

PART NO.	NO. R Class 627	EQ'D Class 629	DESCRIPTION
4C1-99	3	3	Sharpener Hold-Down Nut
4C1-150	1	1	Sharpener Hold-Down Nut
4C1-179	4	4	Front-to-Rear Bearing Nut
4C2-2	1	1	Plate Bolt Nut
20C3-29	0	4	Front-to-Rear Bearing Screw
20C3-35	4	0	Front-to-Rear Bearing Screw
20C13-96	4	0	Standard-to-Bearing Screw
24C4	1	1	Plate Bolt



COMPA

Single-Phase Motor Assemblies

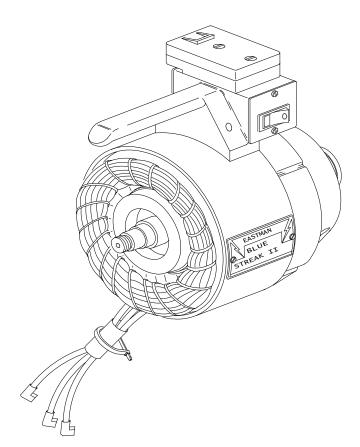


Figure 21. Single-Phase Motor Assembly (Assembled View)

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd	Description
4C1-145 4C2-87 8C5-10 8C12-4 10C1-41 12C1-12 12C1-32 13C1-9 18C6-16 22C1-41 30C1-8 34C1-51 47C4-79 47C4-80	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Shaft Lock Nut Nut, Clutch Automatic Switch Insulation Lead Wire Insulation Rotor Fan Loading Spring Washer Lock Washer Turning Knob Retaining Ring Carrying Handle/Switch Body Dust Cap Clutch Spring Terminal Terminal

Part No.	No. Req'd	Description
	CLAS CLAS	
52C5-238		
52C5-239 53C7-35	1 1 1 1	Fuse Base Fan Cover
73C7-121	1 1	Terminal Wire Tubing
90C1-146	1 1	Rear Bearing Housing
90C6-46	1 1	Rear Ball Bearing
254C1	1 1 1 1	Cable Tie, 4"
262C1-22 262C1-23	0 1	Fuse Holder, Flip-Top Fuse 8 Amp.
262C1-24	1 0	Fuse 10 Amp.
300C12-3	2 2	Screw, 8-32 x 3/8 Round Hd.
301C8-1	3 3	Screw, 4-40 x 1/2 Fillister Head
301C12-3 305C8-1	2 2 14 14	Screw, 8-32 x 3/8 Fillister Head Screw, Binding Head
305C10-1	1 1	Screw, Binding Head
307C15-2	2 2	Screw, #10-32 x 1/2 Button Head
513C3-240	1 0	Rotor and Shaft
513C3-241	0 1	Rotor and Shaft
514C8-110 514C8-113	1 0 1 0	Stator with Band 220V 60 Hz. 3600 R.P.M. Stator with Band 220V 50 Hz. 3000 R.P.M.
514C8-124	1 0	Stator with Band 110V 50 Hz. 3000 R.P.M.
514C8-127	0 1	Stator with Band 110V 60 Hz. 3600 R.P.M.
514C8-137	0 1	Stator with Band 220V 50 Hz. 3000 R.P.M.
514C8-138 514C8-140	0 1	Stator with Band 220V 50 Hz. 1500 R.P.M. Stator with Band 220V 60 Hz. 3600 R.P.M.
514C8-140	0 1	Stator with Band 220V 60 Hz, 1800 R.P.M.8
514C8-201	1 0	Stator with Band 220V 50 Hz. 1500 R.P.M.
580C1-192	1 1	Switch Cutout, Single Speed
580C1-212	1 1	Switch, 220 Volt
597C2-14 597C2-15	1 1	Cutout Assy 60 Cycle 3600 R.P.M. Cutout Assy 50 Cycle 3000 R.P.M.
597C2-15	1 1	Cutout Assy 50 Cycle 3000 R.P.M.
597C2-17	1 1	Cutout Assy 50 Cycle 1500 R.P.M.
783C1-3	1 1	Grounding Wire Assy.

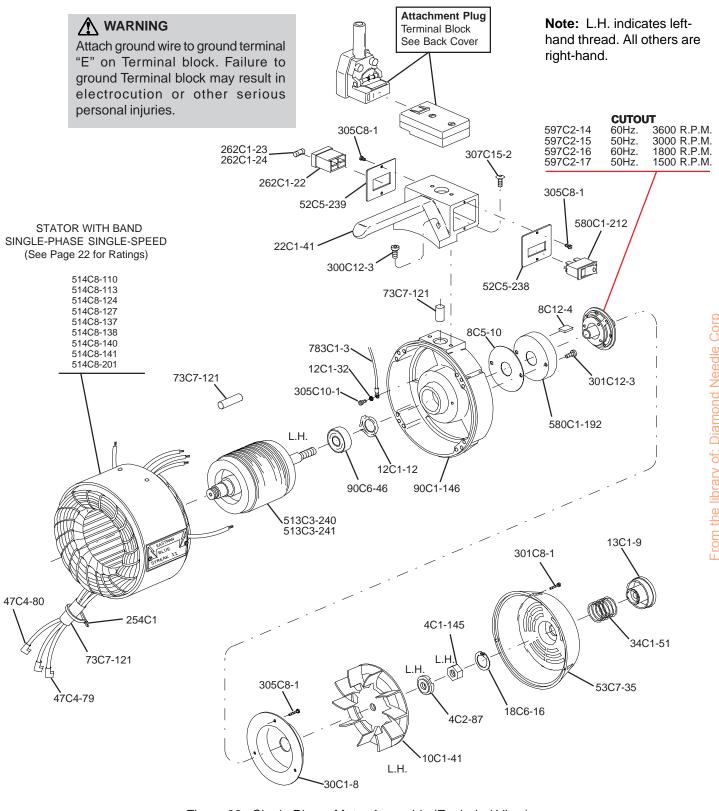


Figure 22. Single Phase Motor Assembly (Exploded View)



Three-Phase Motor Assemblies

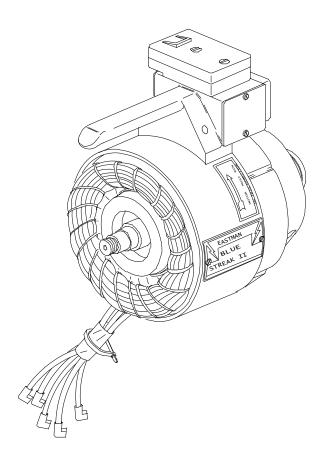


Figure 23. Three-Phase Motor Assembly (Assembled View)

Part No.	No. Req'd	Description
1C4-8 4C1-145 4C2-87	1 1	Sleeve, Cutout Shaft Lock Nut Nut, Clutch
10C1-41	1 1	Rotor Fan
12C1-12	1 1	Loading Spring Washer
12C1-32	1 1	Lock Washer
13C1-9	1 1	Turning Knob
18C6-16	1 1	Retaining Ring
20C13-94	2 2	Screw, M4 Pan Head
22C1-42	1 1	Carrying Handle/Switch Body
30C1-8	1 1	Dust Cap
34C1-51	1 1	Clutch Spring
52C5-241	1 1	Switch Cover
52C5-242	2 2	Cover, Handle Side
53C7-35	1 1	Fan Cover
67C1-10	1 1	Cutout Mount
73C7-121	1 1	Tubing, Terminal Wire
79C2-81	1 1	Plate, Direction Arrow
90C1-146	1 1	Rear Bearing Housing
90C6-46	1 1	Rear Ball Bearing
199C1-23	3 3	Wire Lug
254C1	1 1	Cable Tie
300C12-3	4 4	Screw, 8-32 x 3/8 Round Hd.
300C10-8	2 2	Screw, #6-32 x 3/4 Round Hd.
301C8-1	3 3	Screw, #4-40 x 1/2 Fillister Hd.
305C8-1	14 14	Screw, #4-40 x 1/4 Binding Hd.
305C10-1	1 1	Screw, #6-32 x 1/4 Binding Hd.
307C15-2	2 2	Screw, #10-32 x 1/2 Button Head
513C3-240	1 0	Rotor and Shaft
513C3-241	0 1	Rotor and Shaft
514C8-143	0 1	Stator with Band 220V 50 Hz. 3000 R.P.M.
514C8-146	0 1	Stator with Band 220V 60 Hz. 3600 R.P.M.
514C8-151	0 1	Stator with Band 380V 50 Hz. 3000 R.P.M.
514C8-152	0 1	Stator with Band 380V 50 Hz. 1500 R.P.M.
514C8-157	1 0	Stator with Band 220V 50Hz. 3000 R.P.M.
514C8-161	1 0	Stator with Band 380V 50 Hz. 3000 R.P.M.
580C1-98 783C1-3	1 1 1 1	Switch, 3 Phase Ground Wire Assy.

Note: Please specify model and serial number of machine when ordering parts.

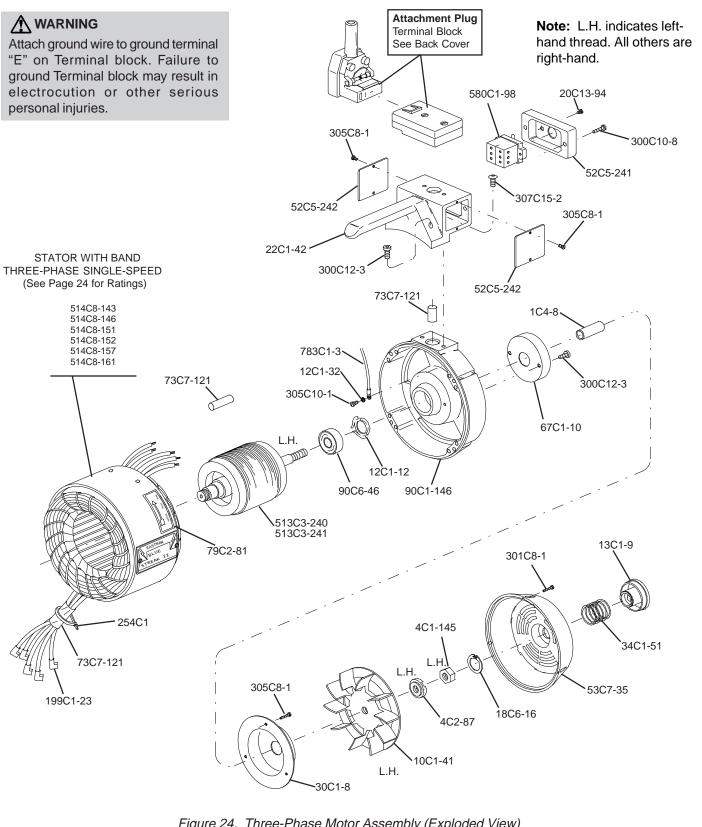
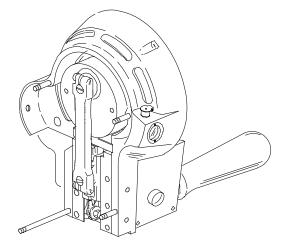


Figure 24. Three-Phase Motor Assembly (Exploded View)



EASTMAN Front Bearing Housing (90C2-162) with Oiler Assembly



Note: Please specify model and serial number of machine when ordering parts.

Part No.		o. Req'd	Description
	CLA	5.56 ¹ ,56 ² , CLASS 62 ⁹	
4C1-111	1	1	Operating Handle Lock Nut
4C1-132	1	1	Crank Ball Bearing Lock Nut
4C1-190	1	1	Lock Nut for Shaft
4C2-91	3	3	Nut for Guide Screw
4C2-110	1	1	Stop Nut
4C3-8	3	3	Guide Adjustment Nut
11C12-92	1	1	Shaft for Ball Bearing
12C1-21	2	2	Shakeproof Washer
12C1-24	1	1	Knife Lock Washer
12C10-2	3	3	Washer
12C15-14	6	6	Guide Washer
12C15-53	1	1	Connecting Rod Washer
15C13-23	2	2	Stud, Upper
15C13-34	1	1	Stud, Lower L.H. Mounting
15C13-39	1	1	Stud, Lower R.H. Mounting
17C4-6	1	1	Wrist Pin
18C5-9	1	1	Connecting Ring
18C6-79	1	1	Lock Ring
18C6-80	1	1	O-Ring
8C9-22	1	1	Insulating Ring
20C5-17	2	2	Connecting Rod Clamp Screw
20C12-62	1	1	Front Housing Plug Screw
20C12-79	1	1	Screw for Handle Bracket
24C1-3	1	1	Knife Lock Bolt
34C10-142	1	1	Spring for Capacitor
52C5-240	1	1	Switch Plate
53C6-2	1	1	Oiler Tube Cover
53C11-180	1	1	Capacitor Cover
53C11-183	1	1	Side Cover
54C4-32	1	1	Wrist Pin Plug

CLASS 629 CLA55621 62C1-140 1 Handle Bracket 63C5-11 Push Button Cap 71C3-18 Front Ball Bearing Retainer 72C4-28 Oil Hole Cover 1 1 73C7-203 Oil Tube, Clear 1 1 73C7-204 1 1 Oiler Tube Crank-1-1/8 Stroke 85C1-52 1 85C1-46 Crank 1-1/4 Stroke 1 85C1-45 Crank 1-1/2 Stroke 1 Crank 1-3/4 Stroke 85C1-44 1 90C2-165 Front Bearing Housing 1 1 90C6-38 1 Front Ball Bearing 90C6-46 Seated Crank Ball Bearing 91C4-25 2 **Rivet Crosshead** 2 Gauge, Clear 141C1-46 1 Oil Felt Wicking, Long 191C1-42 1 1 191C1-43 1 Oil Felt Wicking, Short 1 Oil Felt Wicking, .187 x .44 191C1-45 1 1 201C1-11 Eyelet 222C1-7 **RTV** Sealer 1 300C3-2 Screw 4 4 Screw, 8-32 x 3/8 Round Head 300C12-6 2 2 302C8-2 1 1 Screw, Flat Head 4-40 x 3/4 302C10-4 4 Screw, 6-32 x 5/16 Flat Head 4 Screw. 4-40x 1/4 Binding Head 305C8-1 7 307C18-1 1 Screw 1 Screw, 8-32 x 3/8 Socket Head 308C12-1 3 3 308C14-1 6 6 Guide Hold Down Screw 309C15-5 3 3 Guide Adjustment Screw 525C1-4 L.H. & R.H. Guides 1-3/4 Stroke 1 525C1-5 L.H. & R.H. Guides 1-1/2 Stroke 1 525C1-6 L.H. & R.H. Guides 1-1/4 Stroke 1 525C1-7 1 L.H. & R.H. Guides 1-1/8 Stroke 1 531C1-92 1 1 Auto Stop Operating Handle, Vibration Resistant 531C1-90 Auto Stop Operating Handle Assembly 1 1 579C2-17 1 Cross Head (With Wrist Pin, Lock Washer & Bolt) 607C1-35 **Oiling Device** 1 660C4-14 Touch Sensor Board Assembly, 220 Volt, 1 Phase 1 1 660C4-15 Touch Sensor Board Assembly, 380 Volt, 3 Phase 1 1 660C4-16 Touch Sensor Board Assembly, 220 Volt, 3 Phase 1 1 664C1-6 Connecting Rod 1-1/8 Stroke 1 Connecting Rod 1-1/4 Stroke 664C1-5 1 664C1-4 Connecting Rod 1-1/2 Stroke 1 1 Connecting Rod 1-3/4 Stroke 664C1-3 1 1 Capacitor 110 Volt (Single Phase Only) 706C1-4 0 1 706C1-5 0 1 Capacitor 220 Volt (Single Phase Only)

Capacitor 110 Volt (Single Phase Only)

Capacitor 220 Volt (Single Phase Only)

Part No.

706C1-13

706C1-18

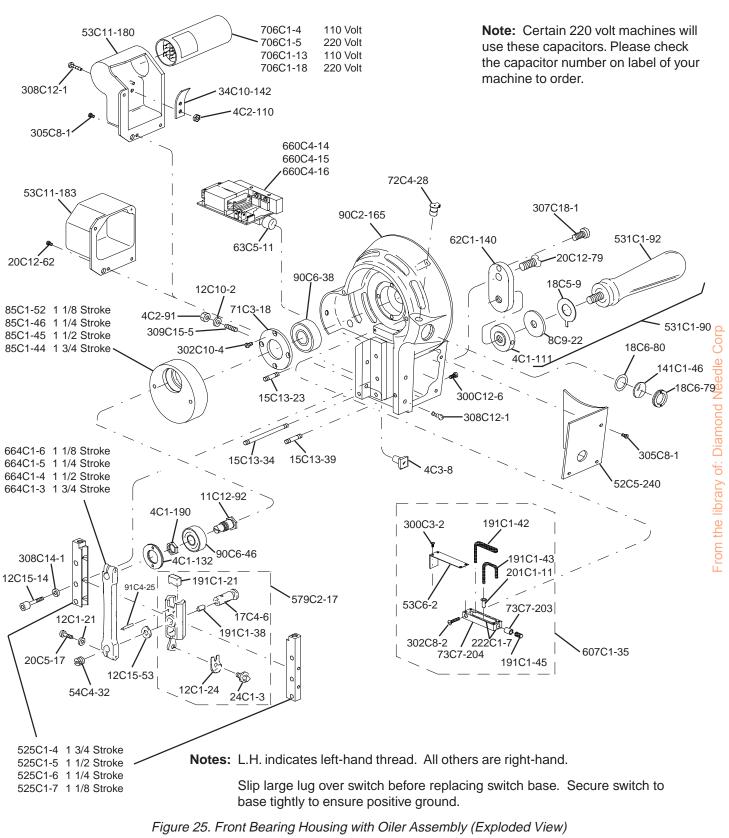
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No. Req'd

Description





EASTMAN Sharpener Housing Assembly (Front View)

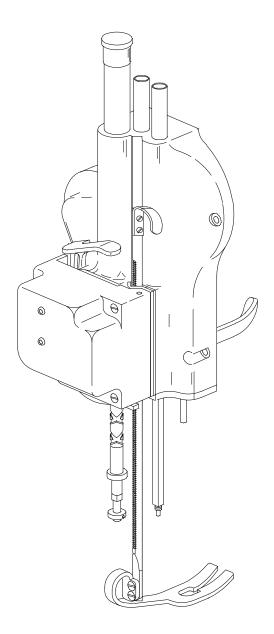


Figure 26. Sharpener Housing Assembly (Assembled, Front View)

Note: Please specify model and serial number of machine when ordering parts.

Tarrio.	No. Neq u	Description
	E a a la a th	
	For both 627 & 629	
4C1-149 4C2-112	1 1	Nut, Elastic R.H. Nut for Screw Shaft
4C2-112 4C2-113	1	L.H. Nut for Screw Shaft
5C5-16	1	Collar, Lower
11C12-54	1	Shaft for Cam
12C15-57 12C15-74	1 4	Spring Washer for Release Lever Washer, Flat
12C15-91	2	Thrust Washer, Upper Nut
12C15-130	1	Washer for Locking Bracket
17C5-18 17C15-106	1	Pivot Pin, Lock Bracket Roll Pin for Collar
20C4-17	1	Pressure Foot Lever Screw
20C12-13	1	Cam Shaft Spring Screw
20C12-113 20C12-117	1 2	Screw for Latch Screw for Pressure Foot Shoe
20C12-117 20C12-156	2	Screw for Release Lever
22C3-2	1	Lift Handle for Knife Guard Lock
34C1-20	1 1	Tension Spring
34C8-12 34C10-179	1	Spring for Pressure Foot Lock Spring for Pressure Foot Lever
34C10-107	1	Spring for Latch
53C11-103	1	Vinyl Cover for Handle
53C11-181 55C4-49	1 1	Cover for Locking Cam Spacer for Knife Guard Lock Bracket
62C16-334	1	Pressure Foot Lock Bracket Only
68C1-192	1	Pressure Foot Shoe, All Strokes
71C3-15 86C7-34	3 1	Thrust Ball Bearing Cap for Tube
90C4-47	1	Bearing for Cam Shaft
97C3-35	1	Latch for Cam
118C1-8 147C1-26	1	Plunger, Lock Bracket Extension for Screw Shaft
171C1-16	1	Lock (Only) for Pressure Foot
300C10-1	2	Screw, #6-32 x 3/16 Round Head
300C10-4 302C10-8	3 1	Screw, #6-32 x 3/8 Round Head Screw, #6-32 x 3/4 Flat Head
302C10-11	2	Screw, #6-32 x 1-1/4 Flat Head
307C15-1 309C15-7	2	Screw, #10-32 x 1/2 Button Head Set Screw for Cam
553C1-11	1	Pressure Foot Lock Bracket Complete
553C1-12	1	Pressure Foot Lock Assembly
605C1-36 605C1-37	1 1	Pressure Foot Rod 7"-8" Knife Pressure Foot Rod 9"-10" Knife
605C1-37	1	Pressure Foot Rod 11-1/2" Knife
605C1-34	1	Pressure Foot Rod 13" Knife
621C1-7 692C2-15	1 1	Release Lever With Cam Solenoid, Lock
683C1-17	1	Pressure FootLever
713C4-4	1	Screw Shaft With Extension,
713C4-5	1	R. & L. Hand Nuts 5"-8" Screw Shaft With Extension,
71304-3	I	R. & L. Hand Nuts 9"-10"
713C4-6	1	Screw Shaft With Extension,
713C4-7	1	R. & L. Hand Nuts 11-1/2" Screw Shaft With Extension.
71304-7	I	R. & L. Hand Nuts 13"
732C1-11	1	Sharpener Housing (With Bushings
732C1-12	1	and Tubes) Only 5"-8" Knife Sharpener Housing (With Bushings
15201-12	I	and Tubes) Only 9"-10" Knife
732C1-20	1	Sharpener Housing (With Bushings
732C1-17	1	and Tubes) Only 11-1/2" Knife Sharpener Housing (With Bushings
10201-17		and Tubes) Only 13" Knife

Part No.

No. Req'd

Description

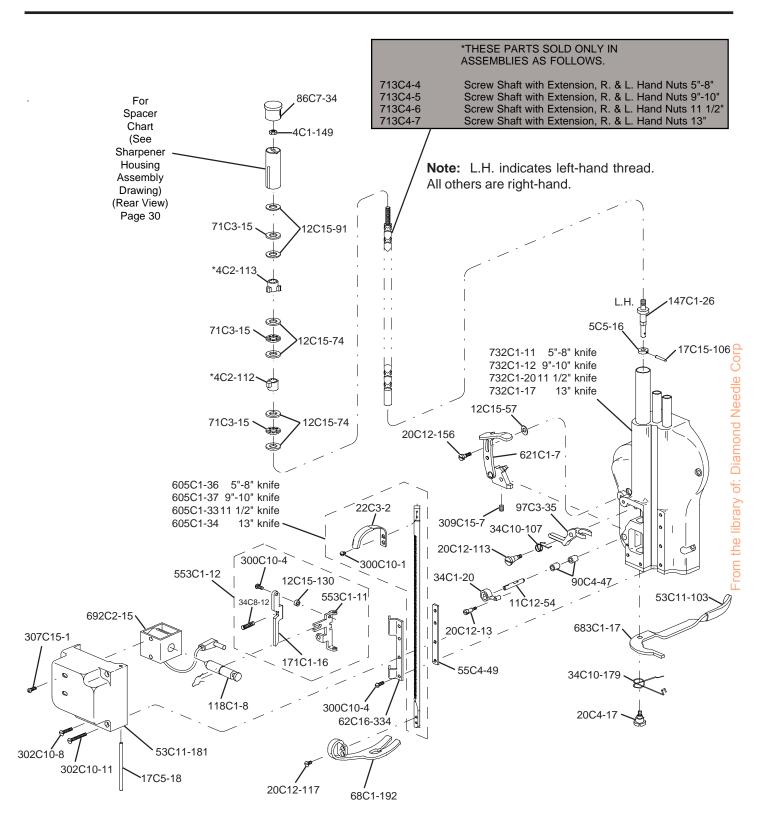


Figure 27. Sharpener Housing Assembly (Exploded, Front View)



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Sharpener Housing Assembly

(Rear View)

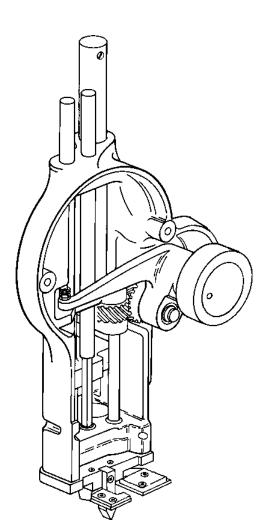


Figure 28. Sharpener Housing Assembly (Assembled, Rear View)

Note: Please specify model and serial number of machine when ordering parts.

Part No.	No. Req'd	Description
	For both 627 & 629	
4C2-2	1	Lock Nut for Shaft
4C2-85 4C2-86	1 1	R.H. Follower Nut L.H. Follower Nut
11C12-58	1	R.H. Square Shaft 5"-8" Knife
11C12-59	1	R.H. Square Shaft 9"-10" Knife
11C12-81 11C12-85	1	R.H. Square Shaft 11-1/2" Knife R.H. Square Shaft 13" Knife
11C12-56	1	L.H. Square Shaft 5"-8" Knife
11C12-57	1	L.H. Square Shaft 9"-10" Knife
11C12-80 11C12-84	1	L.H. Square Shaft 11-1/2" Knife L.H. Square Shaft 13" Knife
11C12-64	1	Shaft for Crank
12C11-74 12C15-29	1 2	Thrust Washer Thrust Washer
12C15-29	2	Thrust Washer for Bottom Plate
17C15-78	1	Pin for Bell Crank
17C15-103 17C15-113	1 1	Roll Pin for Push Rod Spreader Pin
18C6-81	1	Retaining Ring for Shaft
18C6-26	1	Retaining Ring for Bell Crank
34C10-89 55C4-41	1	Spring for Bell Crank Spacer for Ball Bearings
62C16-151	1	Sharpener Housing (Only)
65C6-75 71C1-10	1	Push Rod
73C7-46	1 1	Oil Retainer-Idler Gear Tube for Square Shaft 5"-8" Knife
73C7-47	1	Tube for Square Shaft 9"-10" Knife
73C7-86 73C7-88	1 1	Tube for Square Shaft 11-1/2" Knife Tube for Square Shaft 13" Knife
73C7-48	1	Tube for Screw Shaft 5"-8" Knife
73C7-49	1	Tube for Screw Shaft 9"-10" Knife
73C7-85 73C7-87	1 1	Tube for Screw Shaft 11-1/2" Knife Tube for Screw Shaft 13" Knife
79C12-163	1	Bottom Plate, Sharpener Housing
85C3-6E	1	Bell Crank (Only)
87C3-8 87C3-44	1	Spiral Gear Spur Gear
87C3-53	1	Gear and Shaft
90C4-29	1	Bearing for Drive Shaft (Lower)
90C4-33 90C4-34	2 1	Bearing for Gears Bearing for Bell Crank
90C4-42	1	Bearing for Drive Shaft
90C4-48 90C4-58	1 1	Bearing for Drive Shaft (Upper) Bearing for Screw Shaft
90C4-58 90C6-24	2	Ball Bearing for Crank
142C1-7	1	Key for Gear
191C1-21 300C7-1	1 1	Felt Pad for Cross Head Screw, #4-36 x 1/8 Round Head
300C10-1	2	Screw, #6-32 x 3/16 Round Head
302C10-6	1	Screw, #6-32 x 1/2 Flat Head
302C12-3 584C2-3	3	Screw, #8-32 x 3/8 Flat Head Bell Crank with Pin & Bearing (Only)
584C3-16	1	Bell Crank Complete with Lever
602C1-7	1	Slow Speed Driver Assembly
602C1-9 627C1-10	1 1	Driver Pulley with Driver Idler Gear & Bushing
716C1-12	1	Driver Shaft with Gear
727C1-6	1	Oil Pad & Holder

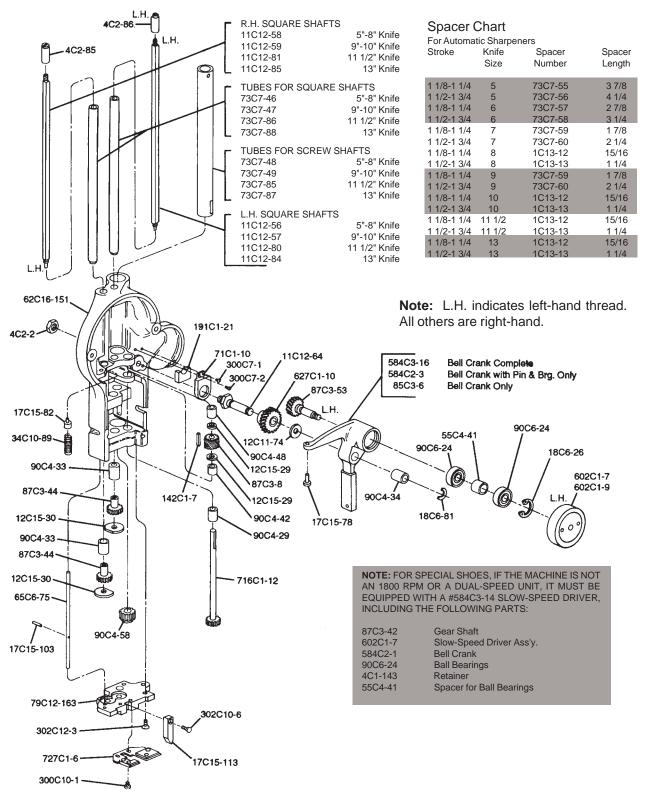


Figure 29. Sharpener Housing Assembly (Exploded, Rear View)



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Lower Gear Bracket Assembly Illustrated Parts List

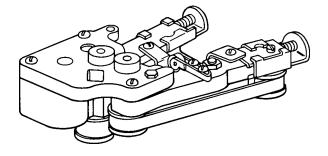


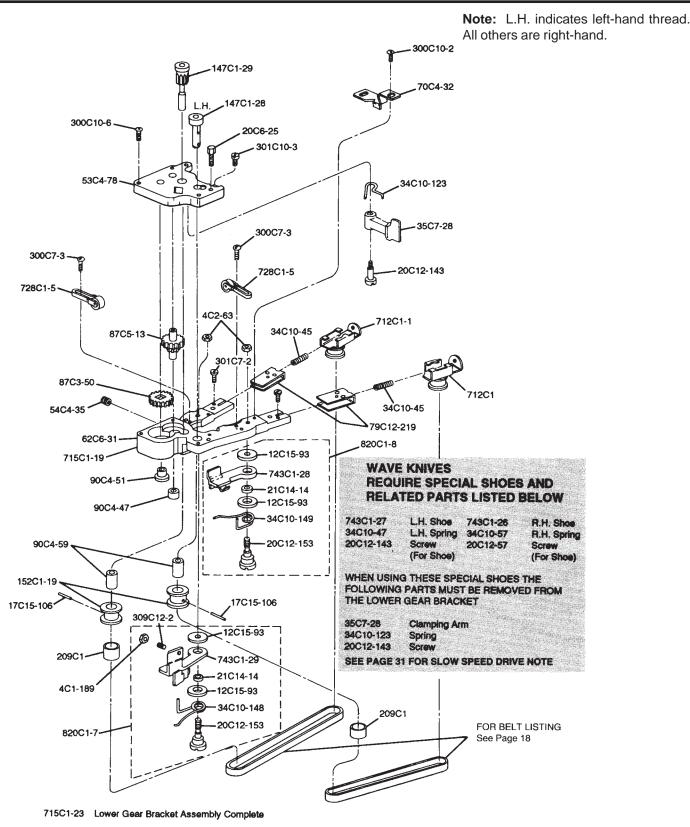
Figure 30. Lower Gear Bracket Assembly (Assembled View)

Part No.	No. Req'd	Description
4C1-189	1	Jam Nut, #8-32
4C2-63	2	Nut for Sharpener Shoe Screw
12C15-93	4	Washer, Shoe
17C15-106	2	Roll Pin (For Pulley 152C1-19)
20C6-25	1	Adjusting Screw
20C12-57	2	Screw for Sharpener Shoe
		(Wave Knife Only)
20C12-143	1	Screw for Clamping Arm
20C12-153	2	Screw for Sharpener Shoe
21C14-14	2	Bushing for Sharpener Shoe
34C10-45	2	Spring for Pulley Slide
34C10-47	1	L.H. Sharpener Shoe Spring (Wave Knife Only)
34C10-57	1	R.H. Sharpener Shoe Spring (Wave Knife Only)
34C10-123	1	Spring for Arm

Note: Please specify model and serial number of machine when ordering parts.

Con	Complete Sharpener Assembly Numbers: 637C10-*					
	Machine Stroke					
		1-1/8"	1-1/4"	1-1/2"	1-3/4"	
	5"	-20,	-21,	-22,	-23,	
ji j	6"	-24,	-25,	-26,	-27,	
Height of Machine	7"	-28,	-29,	-30,	-31,	
	8"	-32,	-33,	-34,	-35,	
pt o	9"	-36,	-37,	-38,	-39,	
eigl	10"	-40,	-41,	-42,	-43,	
エ	11-1/2"		-45,	-46,	-47,	
	13"	-48,	-49,	-50,	-51	

Part No.	No. Req'd	Description
34C10-148	1	L.H. Sharpener Shoe Spring
34C10-149	1	R.H. Sharpener Shoe Spring
35C7-28	1	Clamping Arm for Shoe
53C4-78	1	Gear Cover
54C4-35	1	Oil Hole Plug
62C6-31	1	Bracket, Lower Gear
70C4-32	1	Guide Back of Standard
79C12-219	2	Wear Plate
87C3-50	1	Gear on Screw Shaft
87C5-13	1	Intermediate Gear
90C4-47	1	Bearing for Intermediate Gear
90C4-51	1	Bearing for Screw Shaft
90C4-59	2	Bearing for Shaft Extension
147C1-28	1	R.H. Shaft Extension
147C1-29	1	L.H. Shaft Extension
152C1-19	2	Front Pulley for Belt
209C1	2	Neoprene Band for Pulley
300C7-3	4	Screw, #4-36 x 1/4 Round Head
300C10-2	2	Screw, #6-32 x 1/4 Round Head
300C10-6	3	Screw, #6-32 x 1/2 Round Head
301C7-2	2	Screw, #4-36 x 3/16 Fillister Head
301C10-3	1	Screw, #6-32 x 3/8 Fillister Head
309C12-2	1	Stop Screw, L.H. Shoe
712C1	1	R.H. Slide with Pulley
712C1-1 715C1-19	1 1	L.H. Slide with Pulley Lower Gear Bracket with Cover Brgs., Screws & Wear Plate 5"-13" Knife
715C1-23	1	Lower Gear Bracket (Complete)
728C1-5	2	Stabilizer Assembly
743C1-26	1	R.H. Shoe (Wave Knife Only)
743C1-27	1	L.H. Shoe(Wave Knife Only)
743C1-28	1	R.H. Pre-set Sharpener Shoe (Only)
743C1-29	1	L.H. Pre-set Sharpener Shoe (Only)
820C1-7	1	L.H. Complete Shoe Assembly
820C1-8	1	R.H. Complete Shoe Assembly





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Standard and Baseplate Assembly

Part No.	No. Req'd	Description
	For both 627 & 629	
12C1-35 12C15-77 17C1-4	4 1 2	Lock Washer, #8 Washer for Micro Fog Standard Taper Pin #0 x 3/4
17C6-9 20C5-12 20C12-19	2 8 1	Hinge Pin Clamp Screw for Rollers Knife Slide Screw
20C13-51 34C1-57 60C1-55	4 2 1	Hinge Pin Clamp Screw Plate Wing Tension Spring Plate Wing (For Small Plates)
60C1-56 79C4-12 79C4-24	1 1 1	Plate Wing (For Large Plates) Throat Plates with Screws and Pins Tapered & Relieved Throat Plates Assembly
213C1-1 302C12-3 505C3-223	6 3 1	Fibre Shim Screw, #8-32 x 3/8 Flat Head Small Plate Base Complete (5"-8" Knife)
505C3-224 505C3-226	1 1	Large Plate Base Complete (9"-13" Knife) Small Plate Base Complete (5"-8" Knife) For 50 Cycle 1500 R.P.M. & Dual-Speed Only
505C3-227 505C3-243	1	Large Plate Base Complete (9"-13" Knife) For 50 Cycle 1500 R.P.M. & Dual-Speed Only Small Plate Base Complete (5"-8" Knife)
505C3-244	1	Used with Swivel Roller Assembly Only Large Plate Base Complete (9"-13" Knife) Used with Swivel Roller Assembly Only
528C1-112	1	Micro Fog Standard (Complete with Slides and Throat Plates) 6" Knife
528C1-123 528C1-120	1 1	Standard (Complete with Slides and Throat Plates) 5" Knife Standard (Complete with Slides and Throat
528C1-122	1	Plates) 6" Knife Standard (Complete with Slides and Throat Plates) 7" Knife
528C1-121 528C1-115	1	Standard (Complete with Slides and Throat Plates) 8" Knife Standard (Complete with Slides and Throat
528C1-116	1	Plates) 9" Knife Standard (Complete with Slides and Throat
528C1-124	1	Plates) 10" Knife Standard (Complete with Slides and Throat Plates) 11-1/2" Knife
528C1-125 532C2-3	1	Standard (Complete with Slides and Throat Plates) 13" Knife Rubber Mounted Roller (Complete)
532C2-5 532C2-7	4 4	Rubber Mounted Roller (Complete) Rubber Mounted Roller (Complete)
619C1-31 643C1-44 643C1-41 643C1-42 643C1-43 643C1-43	4 1 1 1 1 1	Roller Shell (Complete) Knife Slides (Complete with Screws) 5" Knife Knife Slides (Complete with Screws) 6" Knife Knife Slides (Complete with Screws) 7" Knife Knife Slides (Complete with Screws) 9" Knife
643C1-47 643C1-53 643C1-53 643C1-51 643C1-51 619C1-32	1 1 1 1 2	Knife Slides (Complete with Screws) of "Knife Knife Slides (Complete with Screws) 10" Knife Knife Slides (Complete with Screws) 11-1/2" Knife Knife Slides (Complete with Screws) 6" Micro Fog Swivel Roller Assembly

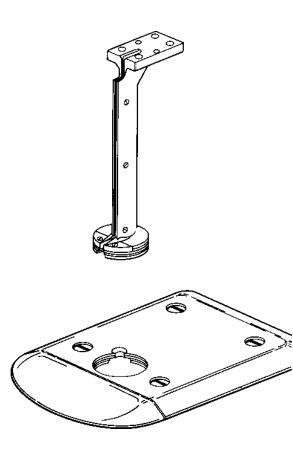


Figure 32. Standard and Baseplate Assembly (Assembled View)

Note: Please specify model and serial number of machine when ordering parts.

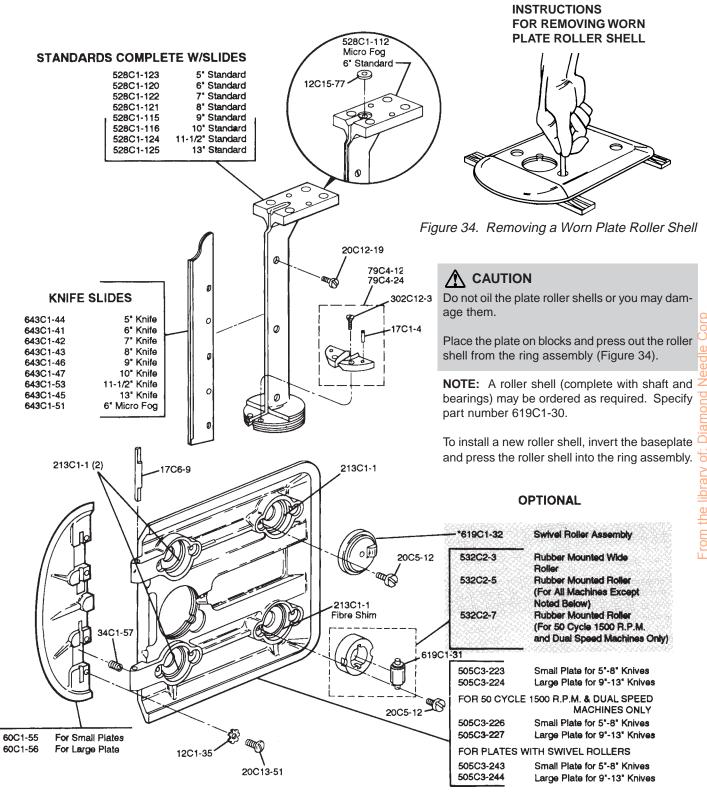
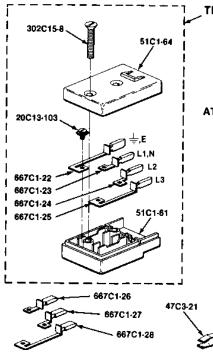
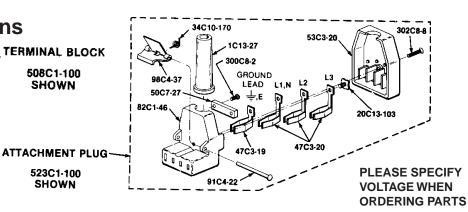


Figure 33. Standard and Baseplate Assembly (Exploded View)



Electrical Connections





Electrical connections to this machine must be made by a qualified electrician ONLY. Failure to follow applicable codes and regulations and conduct a ground lead to terminal "E" on the attachment plug may result in serious personal injuries.

For user safety, connect a ground lead to terminal "E" on the attachment plug.

Always unplug the machine before performing maintenance, adjustment or repairs.

667C1-27 667C1-28		EASTMAN 10A 380V 3~	EASTMAN 10A 220V 3~	EASTMAN 10A 220V ~	EASTMAN 15A 120V ~	EASTMAN 25A 42V ~
Description	Part No.					
Attachment Plug		523C1-99	523C1-100	523C1-101	523C1-102	523C1-103
Cord Sleeve	1C13-27	1	1	1	1	1
U-Lock Sleeve	20C13-103	4	4	3	3	3
Spring	34C10-170	1	1	1	1	1
Terminal Sleeve	47C3-19	1	1	1	1	1
Terminal Sleeve (current)	47C3-20	2	3	1	1	1
Terminal Sleeve (current)	47C3-21	1	_	1	1	1
Cord Clamp	50C7-27	1 1	1	1	1	1
Attachment Plug Cover		53C3-19	53C3-20	53C3-21	53C3-22	53C3-23
Attachment Plug Body	82C1-45	1	_	_	_	-
Attachment Plug Body	82C1-46	-	1	_	-	-
Attachment Plug Body	82C1-47		-	1	<u> </u>	_
Attachment Plug Body	82C1-48	-	_	_	1	_
Attachment Plug Body	82C1-49					1
Rivet	91C4-22	1	1		1	1 1
Thumb Clip	98C4-37	1	1	1	1	1
Screw #4-40 x 3/8 Round Head	300C8-1		2	2	2	_
Screw #4-40 x 1/2 Round Head	300C8-2			1	1	2
Screw #4-40 x 7/8 Round Head	302C8-8			•		
Terminal Block		508C1-99	508C1-100	508C1-101	508C1-102	508C1-103
U-Lock Screw	20C13-103	4	4	3	3	3
Terminal Block Bottom	51C1-61	1	1	1	1	1
Terminal Block Top		51C1-63	51C1-64	51C1-65	51C-66	51C1-67
Screw #10-32 x 1-1/8 Flat Head	302C15-8	2	2	2	2	2
Terminal Contact w/Pin E	667C1-22	1	1	1	1	1
Terminal Contact w/Pin L1,N	667C1-23	1	1	1	—	—
Terminal Contact w/Pin L2	667C1-24	1	1	-	1	
Terminal Contact w/Pin L3	667C1-25	-	1	-		1
Terminal Contact w/Pin L1,N	667C1-26	-	_		1	1
Terminal Contact w/Pin L2	667C1-27	-	-	1	-	-
Terminal Contact w/Pin L3	667C1-28	1	_	_	—	_

Eastman

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